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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Inventorship..... ATM Shafiquel Khalid et al.  
Applicant..... Microsoft Corporation  
Group Art Unit .....2124  
Examiner ..... Chavis, John Q  
Attorney's Docket No. ....MS1-571us  
Title: *Access Redirector and Entry Reflector*

**APPEAL BRIEF**

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Pursuant to 37 C.F.R. §1.192, Applicant hereby submits an appeal brief for Application No. 08/897,217. A Notice of Appeal was filed April 1, 2004. Accordingly, Applicant appeals to the Board of Patent Appeals and Interferences seeking review of the Examiner's rejections.

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1           **(1) Real Party in Interest**

2           The real party in interest is the Microsoft Corporation, the assignee of all  
3 right and title to the subject invention.

4  
5  
6           **(2) Related Appeals and Interferences**

7           Appellant is not aware of any other appeals or interferences which will  
8 directly affect, be directly affected by, or otherwise have a bearing on the Board's  
9 decision to this pending appeal.

10  
11  
12           **(3) Status of Claims**

13           Claims 1-40 stand rejected and are pending in this Application. No claims  
14 have been canceled and no claims have been allowed. Claims 13-18 and 31 have  
15 been Previously Presented and are set forth in the Appendix of Appealed Claims  
16 on page 23 with the remaining claims as originally presented or added.

17           Claims 1-2, 5-6, 8-9, 11-13, 15-16, 18-19, 21, 24-26, 28-35, and 37-39  
18 stand rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No.  
19 6,105,101 ("**Hester**"), as set forth in a Final Office Action dated October 8, 2003  
20 (hereinafter, the "FINAL ACTION").

21           Claims 3-4, 7, 10, 14, 17, 20, 22-23, 27, 36, and 40 stand rejected under 35  
22 U.S.C. §103(a) as being unpatentable over Hester in view of U.S. Patent No.  
23 5,655,148 ("**Richman**"), as set forth in the FINAL ACTION.

**(4) Status of Amendments**

The Applicant responded to the FINAL ACTION to address the 35 U.S.C. §102(a) rejections of pending claims 1-2, 5-6, 8-9, 11-13, 15-16, 18-19, 21, 24-26, 28-35, and 37-39 and the U.S.C. §103(a) rejections of pending claims 3-4, 7, 10, 14, 17, 20, 22-23, 27, 36, and 40.

Subsequently, an Advisory Action was issued on January 8, 2004 dismissing Applicant's traversal and maintaining the rejection of all pending claims. No other amendments have been filed subsequent to the Examiner's final rejection or ensuing Advisory Action.

**(5) Summary of Invention**

The present Application describes a technology that operates on a "common configuration data structure" to promote compatibility and interoperability between differing versions of program modules. The concepts of "configuration," "configuration databases," and "common configuration data structures" are discussed in the specification on pages 3-5. An example of a "common configuration data structure" is the "registry," which is discussed on page 5 of the specification.

A "common configuration data structure" is a data structure that includes configuration data, which describes how a software and/or hardware system is set-

up or configured, which is common to multiple program modules. Page 5, lines 18-23 says this:

Herein, a common configuration data structure refers to a set of multiple configuration databases used by more than one version of a program module (such as an application). In addition, a common configuration data structure refers to a single configuration database (such as the Registry) used by more than one version of a program module (such as an application). A configuration database is often stored as one or more configuration files on the storage system of a computer.

When the technology described in the present Application receives an attempt (by a program module) to access one or more selected storage locations (i.e., “loci”, “nodes”) of the common configuration data structure, it interrupts such access (see blocks 200 and 202 of Fig. 2). Then it determines whether to redirect such attempted access to at least one other storage location of the same data structure (see block 204 of Fig. 2). Then it redirects the attempted access (see blocks 206-210 of Fig. 2).

The purpose of this redirection is to allow differing version of program modules to access their associated configuration information in the common configuration data structure without knowing it is doing so. (see the Abstract, “However, the differing versions are unaware that they are accessing different nodes.”) This helps greatly for compatibility and of differing versions of program modules.

As shown in Fig. 3, as configuration information at a location is changed, the technology described in the present Application may copy selected portions of such changed information into its associated “reflected” location and vice versa.

1 This reflection allows associated “reflected” locations to share relevant  
2 configuration information that promotes interoperability.

3  
4 **(6) Issues**

5  
6 A. Whether Hester anticipates claims 1-2, 5-6, 8-9, 11-13, 15-16, 18-19,  
7 21, 24-26, 28-35, and 37-39 under 35 U.S.C. § 102(e) and the Office has  
8 satisfactorily met its burden to show such anticipation?

9  
10 B. Whether the combination of Hester and Richman obviates claims 3-  
11 4, 7, 10, 14, 17, 20, 22-23, 27, 36, and 40, under 35 U.S.C. § 103(a) and the Office  
12 has satisfactorily met its burden to show that these claims are obvious and that the  
13 combination of references is proper?

14  
15 **(7) Grouping of Claims**

16  
17 For each ground of rejection which applicant contests herein which applies  
18 to more than one claim, such additional claims, to the extent separately identified  
19 and augured below, do not stand or fall together.

1                   **(8) Argument**

2

3                   **Issue A -- Whether Hester anticipates claims 1-2, 5-6, 8-9, 11-13, 15-**

4                   **16, 18-19, 21, 24-26, 28-35, and 37-39 under 35 U.S.C. § 102(e) and the**

5                   **Office has satisfactorily met its burden to show such anticipation?**

6

7                   In summary, Applicant submits that the Office has not satisfied its burden

8 here because of the following reasons:

- 9                   1. The BIOS, disclosed by Hester, is not a “common configuration data
- 10                   structure,” as recited in all pending claims.
- 11                   2. The BIOS interrupt calls, disclosed by Hester, are not an “attempt to
- 12                   access a storage locus,” as recited in the claims 1-18, 29, 31, 33-36,
- 13                   and 39-40.
- 14                   3. Hester does not disclose “intercepting an attempt by a program
- 15                   module to access configuration information (“config-info”) of the
- 16                   program module,” as recited in claims 12-20.
- 17                   4. Hester does not disclose “a first storage locus containing
- 18                   configuration information (“config-info”) for a first version of a
- 19                   program module; a second storage locus containing config-info for a
- 20                   second version of the program module,” as recited in claim 29.
- 21                   5. The Office has not met its burden to show anticipation with respect
- 22                   to claims 21-30, 32, and 37-38 by rejecting these claims on the
- 23                   grounds that their features are “inherent in claim 1 to enable
- 24                   backward compatibility....”
- 25

1           **Hester**

2           Hester is the reference for the anticipation rejections and the primary  
3 reference for the later-discussed obviousness rejection. So, Applicant will initially  
4 and briefly focus on Hester here.

5           Hester describes a device driver that allows program modules designed to  
6 run one type of hardware arrangement to operate more effectively on a different  
7 (and presumably older) hardware arrangement.

8           More specifically, Hester describes its purpose as being a “mechanism of  
9 performing 16 Bit BIOS interrupt calls under a 32 Bit protected mode application”  
10 at col. 2, lines 16-17.

11           In other words, Hester allows for newer applications (e.g., a 32 Bit  
12 protected mode applications) to make its natural interrupt calls into the BIOS, but  
13 its interrupt calls are converted and/or redirected into a different type (e.g., 16 Bit),  
14 which is a older and backward-compatible type. That way, the BIOS of a  
15 hardware system need not be retrofitted in order to allow it to run the newer  
16 applications (e.g., 32 Bit protected mode). See Hester, col. 2 lines 12-33.

17  
18  
19           **(1)    The BIOS, disclosed by Hester, is not a “common configuration  
20 data structure,” as recited in the claims 1-40 .**

21  
22           This group of claims (claims 1-40—which includes independent claims 1,  
23 9, 12, 19, 21, 29-33, 37, and 39) recite a “common configuration data structure”  
24 feature. For example, claim 1 recites a method for “controlling access to storage  
25 loci in a common configuration data structure” and each of its two actions (e.g.,



1 “receiving” and “determining”) operate, at least in part, on the “common  
2 configuration database.”

3 If the meaning of a “common configuration data structure” is not  
4 sufficiently clear, then Applicant directs attention to the discussion of the concepts  
5 of configuration, configuration databases, and common configuration data  
6 structures in the specification beginning on page 3. That text is reproduced here:

### 7 **Configuration**

8 Configuration is the way a system is set up, or the assortment of  
9 components that make up the system. Configuration can refer to either  
10 hardware or software, or the combination of both. For instance, a typical  
11 configuration for a PC consists of 32MB (megabytes) main memory, a  
12 floppy drive, a hard disk, a modem, a CD-ROM drive, a VGA monitor, and  
13 an operating system.

14 Many software products require that the computer have a certain  
15 minimum configuration. For example, the software might require a  
16 graphics display monitor and a video adapter, a particular  
17 microprocessor, and a minimum amount of main memory.

18 When a person installs a new device or program, she sometimes  
19 needs to configure it, which means to set various switches and jumpers  
20 (for hardware) and to define values of parameters (for software). For  
21 example, the device or program may need to know what type of video  
22 adapter you have and what type of printer is connected to the computer.  
23 Thanks to new technologies, such as Plug-and-Play, much of this  
24 configuration is performed automatically.

### 25 **Configuration Databases**

Software applications typically employ one or more configuration  
databases to store configuration settings. Under some OSs (such as  
Windows® 3.1 and MS-DOS®), multiple configuration databases were  
used by the OS and the applications. There were files for starting the  
system (e.g., CONFIG.SYS and AUTOEXEC.BAT). There were files for  
connecting to a network (e.g., NETWORK.INI). There were files for  
running applications (e.g., WIN.INI and SYSTEM.INI).

Each configuration file had its own rules and structure.  
Maintaining these files was a difficult chore for the OS. Providing a  
limited degree of synchronization between these files was also a difficult  
chore for the OS.

## **Common Configuration Data Structure**

With the advent of more advanced OSs (such as Windows NT® and Windows® 95), a common configuration data structure was introduced. It is called the "Registry." All configuration settings are stored therein (except for other legacy configuration files that remained for backward compatibility reasons).

Herein, a common configuration data structure refers to a set of multiple configuration databases used by more than one version of a program module (such as an application). In addition, a common configuration data structure refers to a single configuration database (such as the Registry) used by more than one version of a program module (such as an application). A configuration database is often stored as one or more configuration files on the storage system of a computer.

The Registry. Certain OSs store and check the configuration information (herein, "config-info") at a single location—called the registry. Most applications write data to the registry, at least during installation. The registry is an example of a common configuration data structure.

The registry is a hierarchically structured database containing subtrees of keys that contain per-computer and per-user databases. Each key may contain data items called value entries and may contain subkeys. In the registry structure, keys (and subkeys) are analogous to directories and value entries are analogous to files.

The specification indicates twice (on p. 4, lines 15-16 and lines 21-22) that the "Registry" is an example of such a common configuration data structure. Furthermore, specification provides a definition of a "common configuration data structure" on p. 4, lines 18-22:

Herein, a common configuration data structure refers to a set of multiple configuration databases used by more than one version of a program module (such as an application). In addition, a common configuration data structure refers to a single configuration database (such as the Registry) used by more than one version of a program module (such as an application).

The term "configuration" is defined in the specification on p. 3, lines 10-11: "Configuration is the way a system is set up, or the assortment of components that make up the system."

1 While term “database” is not expressly defined in the specification,  
2 Applicant submits that it is well-known to those of ordinary skill in the art.  
3 Applicant submits that it is an organized collection of data. More particularly, it is  
4 not typically known as set of computer-executable instructions or routines.

5 Webopedia™ (<http://www.pcwebopaedia.com/>) defines a “database” as  
6 follows [emphasis added]:

7  
8 “A collection of *information* organized in such a way that a  
computer program can quickly select desired pieces of *data*. You can think  
of a database as an electronic filing system.

9 Traditional databases are organized by fields, records, and files. A  
10 field is a single piece of *information*; a record is one complete set of fields;  
and a file is a collection of records. For example, a telephone book is  
11 analogous to a file. It contains a list of records, each of which consists of  
three fields: name, address, and telephone number.

12  
13 However, the specification does discuss the term “configuration database”  
14 on p. 4, lines 1-11. Specifically, lines 2-3 says, “Software applications typically  
15 employ one or more configuration databases to store configuration settings.”

16 Applicant submits that the Office has not clearly identified what feature(s)  
17 in Hester that it equates to the “common configuration data structure” recited in  
18 the claims. Since the BIOS is the focus of Hester overall and the focus of nearly  
19 all of the portions of Hester cited by the Office, Applicant assumes that the Office  
20 equates the BIOS to the “common configuration data structure,” as recited in the  
21 claims.

22 The BIOS, disclosed by Hester, is not a “common configuration data  
23 structure,” as recited in the claims. Instead of providing configuration data as part  
24  
25

1 of a common configuration data structure, Hester's BIOS provides a set of basic  
2 instructions for controlling system hardware (Hester, col. 1, lines 44-49).

3 BIOS: Hester describes the BIOS as "The Basic Input/Output System  
4 (BIOS)" which is "typically coded into a computer system's ROM to provide the  
5 basic *instructions* for controlling system hardware. The operating system and  
6 application programs both directly access the BIOS *routines* to provide better  
7 compatibility for such functions as screen displays" [emphasis added] col. 1, lines  
8 44-49.

9 Applicant emphasize the words "instructions" and "routines" here to point  
10 out the contrast with the definitions provided above from the specification and  
11 Webopedia™. Those definitions focus on data and information, which is the  
12 traditional and typical subject matter of databases.

13 Applicant submits that Hester's BIOS is not a "data structure." The BIOS  
14 of Hester contains instructions. The interrupt calls are for the BIOS to perform an  
15 action. If the BIOS disclosed by Hester happens to includes something that can be  
16 classified as data, Applicant submits that does not make the BIOS a database any  
17 more than novel is a cookbook because a fictional character bakes a cake.

18 Furthermore, Applicant submits that the BIOS is not a "configuration data  
19 structure." If the BIOS disclosed by Hester happens to includes something that  
20 can be classified as data, Applicant submits that is not sufficient. Rather, such  
21 data must be configuration data along the lines as that described in the  
22 specification on p. 3, lines 9-24.

23 Further still, Applicant submits that the BIOS is not a "common  
24 configuration data structure." If the BIOS disclosed by Hester happens to includes  
25 something that can be classified as configuration data, Applicant submits that is

1 not sufficient. Rather, such configuration data must be common so that it is “used  
2 by more than one version of a program module” (see Spec., p. 4, lines 18-22).

3 As indicated earlier, Applicant does not submit that it has invented a  
4 “common configuration data structure” (of which the “registry” is one example).  
5 Rather, Applicant submits that the claim language recited operates on a “common  
6 configuration data structure” and that Hester does not.

7 Accordingly, this group of claims (which includes all independent claims  
8 and their dependent claims; thus, all pending claims, where are claims 1-40) is  
9 allowable over the Hester for at least the reason that Hester does not disclose all of  
10 the recited features. In particular, Hester does not disclose the feature of a  
11 “common configuration data structure” and operations on such feature, as recited  
12 in these claims.

13  
14  
15 **(2) The BIOS interrupt calls, disclosed by Hester, are not an**  
16 **“attempt to access a storage locus,” as recited in the claims 1-18,**  
17 **29, 31, 33-36, and 39-40.**  
18

19 This group of claims (claims 1-18, 29, 31, 33-36, and 39-40—which  
20 includes independent claims 1, 9, 12, 29, 31, 33, and 39) recite “accessing a  
21 storage locus” or something quite similar.

22 Applicant submits that the Hester does not disclose such. Furthermore, that  
23 the Office has not pointed out with particularity where Hester discloses such.  
24  
25

1 Applicant submits that, instead of “accessing a storage locus” (i.e., a  
2 storage location), Hester discloses making an interrupt call, which is a request to  
3 execute a set of instructions in the BIOS.

4 The BIOS interrupt calls, disclosed by Hester, are not an “attempt to access  
5 a storage locus,” as recited in these claims. Instead, Hester’s BIOS interrupt call is  
6 used to “get the attention” of some portion of a computer system (Hester, col. 1,  
7 lines 53-54) and execute instructions in the BIOS.

8 Interrupt Call: Hester says that “interrupt calls” are “used to ‘*get the*  
9 *attention*’ of some portion of a computer system” [emphasis added] col. 1, lines  
10 53-54. Furthermore, Webopedia™ (<http://www.pcwebopaedia.com/>) defines an  
11 interrupt call as follows [emphasis added]: “A signal informing a program that an  
12 event has occurred. When a program receives an interrupt signal, it takes a  
13 specified *action*.”

14 Applicant submits that a signal intended to “get attention” or initiate an  
15 “action” does not equate to an “attempt to access a storage locus” (like that  
16 described in claim 1). An interrupt call does not attempt to read or write to  
17 particular storage locus.

18 Applicant respectfully submits that the Office cannot maintain the rejection  
19 of these claims without clearly pointing out, with particularity, where Hester  
20 discloses:

- 21 • a BIOS interrupt call that “access[es] a storage locus”; rather than  
22 acting as a request to execute a set of instructions in the BIOS.
- 23 • a redirection of such access to non-instructions (and more  
24 particularly configuration data) in the BIOS.

1 Accordingly, this group of claims (claims 1-18, 29, 31, 33-36, and 39-40) is  
2 allowable over the Hester for at least the reason that Hester does not disclose all of  
3 the recited features. In particular, Hester does not disclose the feature of an  
4 “attempt to access a storage locus,” as recited in these claims.

5  
6  
7 **(3) Hester does not disclose “intercepting an attempt by a program**  
8 **module to access configuration information (“config-info”) of**  
9 **the program module,” as recited in claims 12-20**

10  
11 This group of claims (claims 12-20—which includes independent claims 12  
12 and 19) recite “intercepting an attempt by a program module to access  
13 configuration information (‘config-info’) of the program module.”

14 Applicant submits that the Hester does not disclose such. Furthermore, that  
15 the Office has not pointed out with particularity where Hester discloses such.

16 Applicant submits that, instead of “intercepting an attempt by a program  
17 module to access configuration information (“config-info”) of the program  
18 module,” Hester discloses intercepting an interrupt call (Hester, col. 2, lines 14-33  
19 and 48-65), which is a request to execute a set of instructions in the BIOS, and  
20 redirecting it to execute another set of instructions in the BIOS.

21 It is not, as the claims recite, an “attempt...to access configuration  
22 information (‘config-info’) of the program module.” Instead, Hester attempts to  
23 initiate execution (rather than “access” data) of instructions. Those instructions  
24 are not, as the claims recite, “configuration information (‘config-info’) of the  
25 program module.” Rather, they are, indeed, instructions.

Applicant respectfully submits that the Office cannot maintain its rejection of these claims without pointing out the specific portions of Hester that disclose configuration information *of the program module* and such information being stored the BIOS.

Accordingly, this group of claims (claims 12-20—which includes independent claims 12 and 19) is allowable over the Hester for at least the reason that Hester does not disclose all of the recited features. In particular, Hester does not disclose the feature of an “intercepting an attempt by a program module to access configuration information (“config-info”) of the program module,” as recited in these claims.

**(4) Hester does not disclose “a first storage locus containing configuration information (“config-info”) for a first version of a program module; a second storage locus containing config-info for a second version of the program module,” as recited in claim 29**

This claim (claim 29) recites “a first storage locus containing configuration information (“config-info”) for a first version of a program module; a second storage locus containing config-info for a second version of the program module”.

Applicant submits that the Hester does not disclose such. Furthermore, that the Office has not pointed out with particularity where Hester discloses such.

Applicant submits that, instead of “a first storage locus containing configuration information (“config-info”) for a first version of a program module;



1 a second storage locus containing config-info for a second version of the program  
2 module,” Hester discloses a BIOS containing sets of instructions which are  
3 executed when initiated by an interrupt call (Hester, col. 2, lines 14-33 and 48-  
4 65).

5 Applicant submits that Hester’s BIOS contains no configuration  
6 information (“config-info”). Furthermore, Applicant submits that Hester’s BIOS  
7 contains no config-info for differing versions of a program module at differing  
8 locations in the BIOS. Rather, Hester discloses a BIOS containing sets of  
9 instructions which are executed when initiated by an interrupt call

10 Applicant respectfully submits that the Office cannot maintain its rejection  
11 of this claim without pointing out the specific portions of Hester that disclose  
12 configuration information *of the first and second versions of program module* and  
13 such information being stored the BIOS.

14 Accordingly, this claim (claim 29) is allowable over the Hester for at least  
15 the reason that Hester does not disclose all of the recited features. In particular,  
16 Hester does not disclose the feature of an “a first storage locus containing  
17 configuration information (“config-info”) for a first version of a program module;  
18 a second storage locus containing config-info for a second version of the program  
19 module,” as recited in this claim.

1  
2 (5) The Office has not met its burden to show anticipation with  
3 respect to claims 21-30, 32, and 37-38 by rejecting these claims  
4 on the grounds that their features are “inherent in claim 1 to  
5 enable backward compatibility....”  
6

7 The Office has not met its burden to show anticipation with respect to this  
8 group of claims (claims 21-30, 32, and 37-38—which includes independent claims  
9 21, 29, 30, 32, and 37) by rejecting these claims on the grounds that their features  
10 are “inherent in claim 1 to enable backward compatibility....”

11 Applicant respectfully submits that the Office has not met its burden and  
12 thus cannot maintain its rejection of these claims without “identify[ing] the  
13 elements of the claims, determin[ing] their meaning in light of the specification  
14 and prosecution history, and identify[ing] corresponding elements disclosed in the  
15 allegedly anticipating reference.” Lindermann Maschinenfabrik GMBH v.  
16 American Hoist & Derrick Co., 730 F.2d 1452, 1458 (Fed. Cir. 1984).

17 For reference, Applicant notes the following from MPEP 2112, which  
18 instructs the Office on how to handle “inherency” in this situation:  
19

20 "To establish inherency, the extrinsic evidence 'must make clear  
21 that the missing descriptive matter is necessarily present in the thing  
22 described in the reference, and that it would be so recognized by persons  
23 of ordinary skill. Inherency, however, may not be established by  
24 probabilities or possibilities. The mere fact that a certain thing may result  
25 from a given set of circumstances is not sufficient.' " In re Robertson, 169  
F.3d 743, 745, 49 USPQ2d 1949, 1950-51 (Fed. Cir. 1999) (citations  
omitted)....

"In relying upon the theory of inherency, the examiner must  
provide a basis in fact and/or technical reasoning to reasonably support  
the determination that the allegedly inherent characteristic necessarily

flows from the teachings of the applied prior art." Ex parte Levy, 17  
USPQ2d 1461, 1464 (Bd. Pat. App. & Inter. 1990) (emphasis in original)

.....

The whole of the Office reasoning on this issue (from p. 3 of the Previous  
Office Action dated May 23, 2003 (hereinafter, the "PREVIOUS ACTION")) is  
quoted here:

The features of claim[] 21 is inherent in claim 1 to enable backward  
compatibility; since, the intercepting and redirecting features inherently  
requires searching, and finding to acquire appropriate links and copying to  
enable calls to systems in different modes. The features of claim 24 are  
inherent in claim 21; since, a trigger event is inherent to enable interrupt calls.

Applicant submits that the Office has not provided a basis in fact and/or  
technical reasoning to reasonably support the determination that the allegedly  
inherent characteristic necessarily flows from the teachings of Hester.

Claim 1 recites a method for *controlling access*. Acts of claim 1 include  
*receiving* an attempt to access a first storage locus and *determining* whether to  
direct such attempt to at least a second storage locus. On the other hand, claim 21  
recites a method for *replicating data*. Acts of claim 21 include *searching* multiple  
storage loci for modified data, *finding* modified data, and *copying* modified data.

There are no express acts of searching, finding, or copying within claim 1  
and Applicant does not see where they exist implicitly. The method of claim 1  
operates whether or not there is modified data. Claim 21, on the other hand, deals  
exclusively with the situation where modified data exists. Applicant respectfully  
submits that the features of claim 21 are not inherent in claim 1. If the Office  
maintains its rejection, Applicant respectfully requests clarification in the Office's  
arguments.

1 Accordingly, this group of claims (claims 21-30, 32, and 37-38—which  
2 includes independent claims 21, 29, 30, 32, and 37) is allowable over the Hester  
3 for at least the reason that the Office has not met its burden to show anticipation  
4 by Hester.

5  
6 **Issue B -- Whether the combination of Hester and Richman**  
7 **obviates claims 3-4, 7, 10, 14, 17, 20, 22-23, 27, 36, and 40, under 35 U.S.C.**  
8 **§ 103(a) and the Office has satisfactorily met its burden to show that these**  
9 **claims are obvious and that the combination of references is proper.**

10  
11 Each of these claims (3-4, 7, 10, 14, 17, 20, 22-23, 27, 36, and 40) which  
12 are rejected based upon obviousness ultimately depend from one of these  
13 independent claims: 1, 9, 12, 21, 29-33, 37, and 39. These independent claims  
14 stand rejected based upon anticipation, but, as Applicant indicated above, each of  
15 these independent claims is allowable.  
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25

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1 In addition to its own merits, each claim dependent from claims 1, 9, 12,  
2 21, 29-33, 37, and 39 is allowable for the same reasons that its base claim is  
3 allowable.

4 Accordingly, Applicant submits that this claim grouping (claims 3-4, 7, 10,  
5 14, 17, 20, 22-23, 27, 36, and 40) is also allowable over the Hester-Richman  
6 combination for at least the reason that the references do not teach or suggest the  
7 combination of claimed elements and features.  
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1                   **Conclusion**

2                   Based upon the foregoing reasons, Applicant submits that Hester does not  
3 anticipate claims 1-2, 5-6, 8-9, 11-13, 15-16, 18-19, 21, 24-26, 28-35, and 37-39  
4 under 35 U.S.C. § 102(e) and that the Office has not satisfactorily met its burden  
5 to show such anticipation. Also, based upon the foregoing reasons, Applicant  
6 submits that the combination of Hester and Richman does not obviate claims 3-4,  
7 7, 10, 14, 17, 20, 22-23, 27, 36, and 40, under 35 U.S.C. § 103(a) and that the  
8 Office has not satisfactorily met its burden to show that these claims are obvious  
9 and that the combination of references is proper.  
10

11                   Applicant respectfully requests that the 35 U.S.C. §102(e) and the 35  
12 U.S.C. §103(a) rejections be overturned and that pending claims 1-40 be allowed  
13 to issue.  
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16  
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18                   Dated: 5-28-04

Respectfully Submitted,

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1                    **(9) Appendix of Appealed Claims**

2

3            1.        **(Original)** A method for controlling access to storage loci in a

4 common configuration data structure, the method comprising:

5                    receiving an attempt to access a first storage locus in the common

6 configuration data structure from a program module;

7                    determining whether to direct such attempt to at least a second locus in the

8 common configuration data structure with the program module unaware that it is

9 accessing the second locus.

10

11            2.        **(Original)** A method as recited in claim 1 further comprising

12 directing such attempt to at least the second locus, the program module being

13 unaware that it is accessing the second locus.

14

15            3.        **(Original)** A method as recited in claim 1 further comprising

16 determining whether to direct such attempt to at least a third locus in the common

17 configuration data structure with the program module is unaware that it is

18 accessing the third locus.

19

20            4.        **(Original)** A method as recited in claim 1 further comprising

21 examining a loci-redirection table, wherein the determining is based, at least in

22 part, upon information in the table.

23

24            5.        **(Original)** A method as recited in claim 1, wherein the program

25 module is an application.

1  
2 6. **(Original)** A method as recited in claim 1, wherein:  
3 the first storage locus is reserved for configuration information (“config-  
4 info”) for a first version of a program module;  
5 the second storage locus is reserved for config-info for a second version of  
6 the program module.

7  
8 7. **(Original)** A method as recited in claim 1, wherein the common  
9 configuration data structure is a registry.  
10

11 8. **(Original)** A computer-readable medium having computer-  
12 executable instructions that, when executed by a computer, performs the method  
13 as recited in claim 1.  
14

15 9. **(Original)** A method for controlling access to storage loci in a  
16 common configuration data structure, the method comprising:

17 receiving an attempt to access a first storage locus in the common  
18 configuration data structure from a program module;

19 directing such attempt to at least a second locus in the common  
20 configuration data structure, the program module being unaware that it is  
21 accessing the second locus.  
22

23 10. **(Original)** A method as recited in claim 9 further comprising  
24 directing such attempt to at least a third locus in the common configuration data  
25 structure, the program module being unaware that it is accessing the third locus.



1  
2 11. **(Original)** A computer-readable medium having computer-  
3 executable instructions that, when executed by a computer, performs the method  
4 as recited in claim 9.

5  
6 12. **(Original)** A method for directing an access to a storage locus in a  
7 common configuration data structure, the method comprising:

8 intercepting an attempt by a program module to access configuration  
9 information ("config-info") of the program module at a first storage locus in the  
10 common configuration data structure;

11 determining whether to redirect such attempt to at least a second locus in  
12 the common configuration data structure with the program module unaware that it  
13 is accessing its config-info at the second locus.

14  
15 13. **(Previously Presented)** A method as recited in claim 12, further  
16 comprising redirecting such attempt to at least the second locus, the program  
17 module being unaware that it is accessing its config-info at the second locus.

18  
19 14. **(Previously Presented)** A method as recited in claim 12, further  
20 comprising examining a loci-redirection table, wherein the determining is based, at  
21 least in part, upon information in the table.

22  
23 15. **(Previously Presented)** A method as recited in claim 12, wherein  
24 the program module is an application.  
25

1           16.    **(Previously Presented)** A method as recited in claim 12, wherein:  
2           the first storage locus is reserved for configuration information (“config-  
3 info”) for a first version of a program module;

4           the second storage locus is reserved for config-info for a second version of  
5 the program module.

6  
7           17.    **(Previously Presented)** A method as recited in claim 12, wherein  
8 the common configuration data structure is a registry.

9  
10          18.    **(Previously Presented)** A computer-readable medium having  
11 computer-executable instructions that, when executed by a computer, performs the  
12 method as recited in claim 12.

13  
14          19.    **(Original)** A method for directing an access to a storage locus in a  
15 common configuration data structure, the method comprising:

16           intercepting an attempt by a program module to access configuration  
17 information (“config-info”) of the program module at a first storage locus in the  
18 common configuration data structure;

19           redirecting such attempt to at least a second locus in the common  
20 configuration data structure, the program module being unaware that it is  
21 accessing its config-info at the second locus.

22  
23          20.    **(Original)** A method as recited in claim 19 further comprising  
24 redirecting such attempt to at least a third locus in the common configuration data  
25 structure, the program module being unaware that it is accessing the third locus.

1  
2 21. **(Original)** A method for replicating data in storage loci of a  
3 common configuration data structure of multiple storage loci, the method  
4 comprising:

5 searching multiple storage loci of the common configuration data structure  
6 for modified data;

7 finding modified data in a first storage locus;

8 copying selected modified data from the first storage locus to at least a  
9 second storage locus.  
10

11 22. **(Original)** A method as recited in claim 21 further comprising  
12 copying selected modified data from the first storage locus to at least a third  
13 storage locus.  
14

15 23. **(Original)** A method as recited in claim 21, wherein only storage  
16 loci listed in a loci-redirection table are searched during the searching.

17  
18 24. **(Original)** A method comprising:  
19 obtaining a triggering event that signals that a method as recited in claim 21  
20 be initiated;  
21 initiating such method as recited in claim 21.  
22

23 25. **(Original)** A method as recited in claim 24 further comprising  
24 sending a triggering event when data in the common configuration data structure is  
25 altered.

1  
2       26.    **(Original)** A method as recited in claim 21, wherein:  
3       the first storage locus is reserved for configuration information (“config-  
4 info”) for a first version of a program module;  
5       the second storage locus is reserved for config-info for a second version of  
6 the program module.

7  
8       27.    **(Original)** A method as recited in claim 21, wherein the common  
9 configuration data structure is a registry.

10  
11       28.    **(Original)** A computer-readable medium having computer-  
12 executable instructions that, when executed by a computer, performs the method  
13 as recited in claim 21.

14  
15       29.    **(Original)** A method of access redirection and entry reflection, the  
16 method comprising:

17       controlling access to storage loci in a common configuration data structure  
18 of multiple storage loci, the controlling comprising:  
19  
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25

- receiving an attempt to access a first storage locus in the common configuration data structure from a program module;
- directing such attempt to at least a second locus in the common configuration data structure, the program module being unaware that it is accessing the second locus;

replicating modified data in storage loci, the replicating comprising:

- searching multiple storage loci for modified data;
- finding modified data in at least one storage locus;
- copying selected modified data from the storage locus to at least another storage locus.

30. **(Original)** A computer-readable medium having computer-executable instructions that, when executed by a computer, perform a method for replicating data in storage loci of a common configuration data structure of multiple storage loci, the method comprising:

searching multiple storage loci of the common configuration data structure for modified data;

finding modified data in a first storage locus;

copying selected data from the first storage locus to at least a second storage locus.

31. **(Previously Presented)** An apparatus comprising:

1 a processor;

2 an access-redirector executable on the processor to:

3 receive an attempt to access a first storage locus in a common  
4 configuration data structure from a program module;

5 redirect such attempt to at least a second locus in the common  
6 configuration data structure, the program module being unaware that it is  
7 accessing the second locus.

8  
9 32. **(Original)** An apparatus comprising:

10 a processor;

11 an entry-reflector executable on the processor to:

12 search multiple storage loci of a common configuration data  
13 structure for modified data;

14 find modified data in a first storage locus;

15 copy selected data from the first storage locus to at least a second  
16 storage locus.

17  
18 33. **(Original)** An operating system comprising:

19 a common configuration data structure containing storage loci for storing  
20 configuration information ("config-info");

21 a loci-access redirector comprising:

22 receiver for receiving an attempt to access a first storage locus in the  
23 common configuration data structure from a program module;

1 director for directing such attempt to at least a second locus in the  
2 common configuration data structure, the program module being unaware  
3 that it is accessing the second locus.  
4

5 34. **(Original)** An operating system as recited in claim 33, wherein the  
6 program module is an application.  
7

8 35. **(Original)** An operating system as recited in claim 33, wherein:  
9 the first storage locus is reserved for config-info for a first version of a  
10 program module;  
11 the second storage locus is reserved for config-info for a second version of  
12 the program module.  
13

14 36. **(Original)** An operating system as recited in claim 33, wherein the  
15 common configuration data structure is a registry.  
16

17 37. **(Original)** An operating system comprising:  
18 a common configuration data structure containing storage loci for storing  
19 configuration information ("config-info");  
20 a loci-entry reflector comprising:  
21 searcher for searching multiple storage loci of the common  
22 configuration data structure for modified data and for finding modified data  
23 in a first storage locus;  
24 replicator for copying selected data from the first storage locus to at  
25 least a second storage locus.

1  
2 38. **(Original)** An operating system as recited in claim 37, wherein:

3 the first storage locus is reserved for config-info for a first version of a  
4 program module;

5 the second storage locus is reserved for config-info for a second version of  
6 the program module.

7  
8 39. **(Original)** A computer-readable medium having a common  
9 configuration data structure data structure, comprising:

10 a first storage locus containing configuration information ("config-info")  
11 for a first version of a program module;

12 a second storage locus containing config-info for a second version of the  
13 program module.

14  
15 40. **(Original)** A computer-readable medium as recited in claim 39  
16 further comprising a third storage locus containing a table that relates the first  
17 storage locus to the second storage locus.